

Title (en)
Method for synthesis of (2S,3aS,7aS)-1-(S)-alanyl-octahydro-1H-indole-2- carboxylic acid derivatives and use in the synthesis of perindopril

Title (de)
Verfahren zur Synthese von (2S,3aS,7aS)-1-(S)-Alanyl-octahydro-1H-2-carbonsäurederivaten und Verwendung in der Synthese von Perindopril

Title (fr)
Nouveau procédé de synthèse de dérivés de l'acide (2S, 3aS, 7aS)-1- (S)-alanyl-octahydro-1H-indole-2-carboxylique et application à la synthèse du perindopril

Publication
EP 1256590 B1 20060301 (FR)

Application
EP 02291853 A 20020723

Priority
FR 0109839 A 20010724

Abstract (en)
[origin: EP1256590A1] Process for industrial synthesis of (2S, 3aS, 7aS)-1-(S) alanyl octahydro-2-carboxylic acid derivatives (I) by reaction of alanine derivative (VI) and ester derivative (V) and catalytic hydrogenation. Process for industrial synthesis of (2S, 3aS, 7aS)-1-(S) alanyl octahydro-2-carboxylic acid derivatives of formula (I) comprises reaction of an ester of formula (V) with an alanine of formula (VI) in an organic solvent optionally in the presence of less than 0.6 mole per mole (V) of 1-hydroxybenzotriazole and in the presence of 1-1.2 mole of dicyclohexylcarbodiimide and 1-1.2 mole of triethylamine per mole of (V) at 20-50 degrees C to give a compound of formula (VII) which is then hydrogenated at 1-40 bars and 30-70 degrees C in the presence of a catalyst, preferably rhodium on charcoal or platinum dioxide, to form (I). R1 = H , 1-6C alkyl, or benzyl; and R2 = amino protecting group. An Independent claim is also included for a process for the synthesis of perindopril starting from (I).

IPC 8 full level
C07B 61/00 (2006.01); **C07K 5/06** (2006.01); **C07K 5/02** (2006.01)

CPC (source: EP KR US)
C07D 209/42 (2013.01 - KR); **C07K 5/0222** (2013.01 - EP US); **C07K 5/06026** (2013.01 - EP US); **Y02P 20/55** (2015.11 - EP US)

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EA010318B1; EP1420030A3; HRP20040781B1; US7521566B2; US7288661B2; US766896B2; WO2005100317A1; WO2005066199A1; WO2017182754A1; US7705046B2; US7981921B2; US7279595B2; US7326794B2; EP1333026A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)
EP 1256590 A1 20021113; EP 1256590 B1 20060301; AR 035081 A1 20040414; AT E318838 T1 20060315; AU 2002334027 A1 20030303; AU 2002334027 B2 20061214; AU 2002334027 B8 20070125; BR 0211334 A 20040928; CA 2455706 A1 20030227; CA 2455706 C 20120124; CN 1533398 A 20040929; DE 60209458 D1 20060427; DE 60209458 T2 20061012; DK 1256590 T3 20060606; EA 005490 B1 20050224; EA 200400110 A1 20040624; ES 2259071 T3 20060916; FR 2827860 A1 20030131; FR 2827860 B1 20041210; HU 0202437 D0 20021028; HU 229396 B1 20131128; HU P0202437 A2 20030228; HU P0202437 A3 20030528; JP 2005500386 A 20050106; JP 3868957 B2 20070117; KR 100607556 B1 20060802; KR 20040023673 A 20040318; MA 27130 A1 20050103; MX PA04000443 A 20040318; NO 20040151 L 20040113; NO 328234 B1 20100111; NZ 530427 A 20050826; PL 212408 B1 20120928; PL 355159 A1 20030113; PT 1256590 E 20060630; SI 1256590 T1 20060630; US 2004198988 A1 20041007; US 7060842 B2 20060613; WO 03016336 A1 20030227; ZA 200400246 B 20060726

DOCDB simple family (application)
EP 02291853 A 20020723; AR P020102757 A 20020723; AT 02291853 T 20020723; AU 2002334027 A 20020723; BR 0211334 A 20020723; CA 2455706 A 20020723; CN 02814609 A 20020723; DE 60209458 T 20020723; DK 02291853 T 20020723; EA 200400110 A 20020723; ES 02291853 T 20020723; FR 0109839 A 20010724; FR 0202627 W 20020723; HU P0202437 A 20020724; JP 2003521258 A 20020723; KR 20047001052 A 20020723; MA 27474 A 20040108; MX PA04000443 A 20020723; NO 20040151 A 20040113; NZ 53042702 A 20020723; PL 35515902 A 20020724; PT 02291853 T 20020723; SI 200230292 T 20020723; US 48402204 A 20040115; ZA 200400246 A 20040113